SANYO

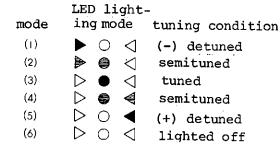
LED Tuning Indicator

Use

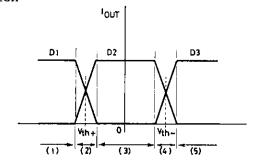
Indicates tuning condition of FM receiver by means of 5 mode - 3 LED's

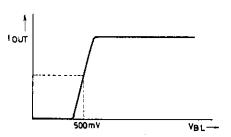
Features

- 1. 3 LED's display 5 mode tuning condition. Since the LED's are driven under constant current supply, the LED current varys as shown below when two LED's are lighted on simultaneously. This causes their brightness to vary, and enables the dynamic indication.
- 2. Desired tuning width can be set as the threshold width of window comparator is variable externally.
- 3. No switching radiation can be made as LED current changes over linearly.
- 4. Blanking at station interval and AM reception is easy to set by blanking pin.
- 5. Direct interface can be made to IF IC using quadrature detector (ex. LA1231, LA1140, etc.)
- 6. Single-ended 9 pin packaged with small mounting area.

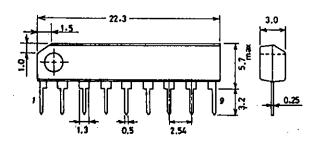


No.730F

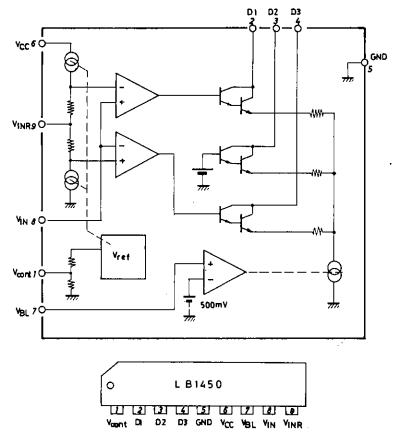




Package Dimensions 3017B unit: mm

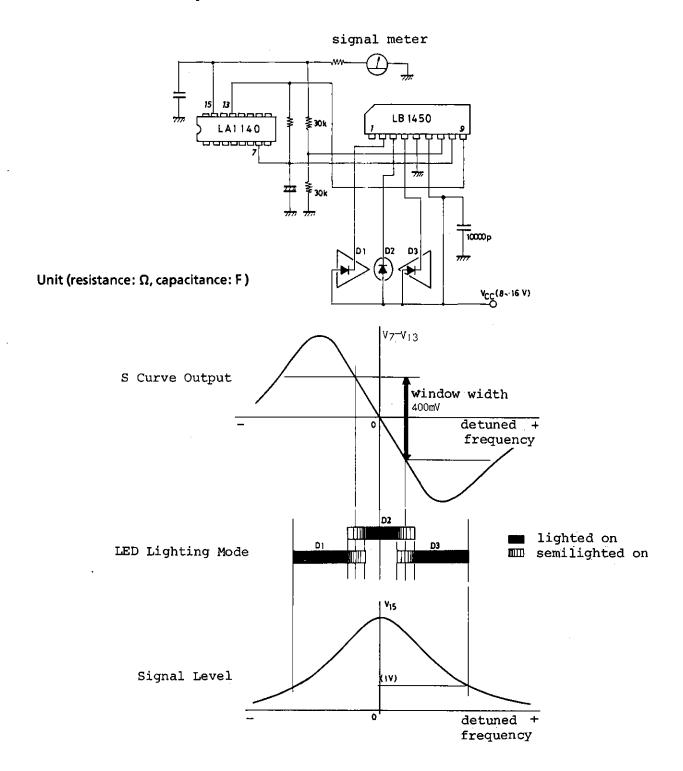


Equivalent Circuit Block Diagram and Pin Assignment



Absolute Maximum Ratings at Ta=	=25°C					
Max. Supply Voltage	v_{CC} max			1	.8 v	
Max. Input Voltage	$v_{\mathtt{INR}}$	$v_{CC}>v_{INR}$	-0.	3 to +1	.6 V	
	v_{IN}	$v_{CC} > v_{IN}$	-0.	3 to +1	.6 V	
	$v_{\mathtt{cont}}$		-0	.3 to +	-4 V	
Many Continues III-71	$\mathtt{v}_\mathtt{BL}$	$v_{CC} > v_{BL}$	-0.	3 to +1	.6 V	
Max. Output Voltage Allowable Power Dissipation Operating Temperature	Vout	Pin2, 3, 4		_	.6 V	
	P_{d} max	T _a =60°C	_	50		
	Topr		-2	0 to +7	0 °C	
Allowable Operating Conditions at Ta=25°C						
Supply Voltage	v_{CC}			8 to 1	.6 V	
Tuning Indicaiton Voltage Width	v_T			20	00 mV	
Electrical Characteristics at Ta=25°C .V _{CC} =12V				typ	max	unit
Input Bias Current	IIN		min -2	C1 P	0	μA
	INR		-20		+20	μA
	INBL		-2		0	μA
Threshold Voltage	v_{th+}	V _{IN} -V _{INR}	150	200	250	mV
	$v_{ t h^-}$	v_{IN} - v_{INR}	-250	-200	-150	mV
	v_w		30	50	100	mV
Simultaneous Lighting Width		OUT2, IOUT3	11	18	25	mΑ
Output Current	V _{BL} (L)		360		500	mV
Blanking Threshold Voltage	VBL(H)		410	500	550	mV
Outrost Isale Comment	IOFF				10	μA
Output Leak Current Current Dissipation	Icc	LED current	excluded 3.0	3.8	5.6	Am

Application: The case of window width 400mV typ. (±200mV) and interstation blanking.



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